

Data_Slides

February 13, 2025

1 Setup and Data

```
[4]: from inflation_analysis import calculate_price_indexes, tri_grouping,
      ↪output_data, output_obs_table, price_index_over_time,
      ↪top_abs_weight_differences, top_price_index_contributors,
      ↪tri_grouping_extended

[ ]: # Parameters
start_year = 2014
end_year = 2022
data_folder="/Users/roykisluk/Downloads/Consumer_Expenditure_Survey/"
top_n = 10
base_year = start_year
comparison_year = end_year

# Grouping
if start_year >= 2014: # After 2014, it is possible to identify secular,
    ↪conservative, and religious groups
    demo, income, ses, total_mmb = tri_grouping_extended(start_year, end_year,
    ↪cex_data_folder = data_folder)
else:
    demo, income, ses, total_mmb = tri_grouping(start_year, end_year,
    ↪cex_data_folder = data_folder)

[6]: # Prepare data: calculate price indexes for each group, secondary and primary,
    ↪categories, and total
demo_analysis, demo_mmb = output_data(demo, start_year, end_year, base_year,
    ↪top_n, data_folder)
income_analysis, income_mmb = output_data(income, start_year, end_year,
    ↪base_year, top_n, data_folder)
ses_analysis, ses_mmb = output_data(ses, start_year, end_year, base_year,
    ↪top_n, data_folder)

# General population
print("Calculating price indexes for general population...")
```

```

gen_pop_df, gen_pop_secondary_df, gen_pop_primary_df,
↳gen_pop_yearly_price_index = calculate_price_indexes(start_year, end_year,
↳base_year, cex_data_folder=data_folder, verbose=False)
gen_pop = {
    'combined_secondary_df': gen_pop_secondary_df,
    'combined_primary_df': gen_pop_primary_df,
    'yearly_price_index': gen_pop_yearly_price_index
}
print("Done.")

```

Group 1/7 (Secular) started.

Loading price data: 100%| | 9/9 [00:06<00:00, 1.29it/s]

Calculating price indexes: 100%| | 9/9 [00:13<00:00, 1.47s/it]

Group 1/7 (Secular) successfully computed.

Group 2/7 (Conservative) started.

Loading price data: 100%| | 9/9 [00:06<00:00, 1.40it/s]

Calculating price indexes: 100%| | 9/9 [00:09<00:00, 1.01s/it]

Group 2/7 (Conservative) successfully computed.

Group 3/7 (Religious) started.

Loading price data: 100%| | 9/9 [00:06<00:00, 1.42it/s]

Calculating price indexes: 100%| | 9/9 [00:06<00:00, 1.39it/s]

Group 3/7 (Religious) successfully computed.

Group 4/7 (Haredi) started.

Loading price data: 100%| | 9/9 [00:06<00:00, 1.43it/s]

Calculating price indexes: 100%| | 9/9 [00:05<00:00, 1.71it/s]

Group 4/7 (Haredi) successfully computed.

Group 5/7 (Arabs) started.

Loading price data: 100%| | 9/9 [00:06<00:00, 1.41it/s]

Calculating price indexes: 100%| | 9/9 [00:06<00:00, 1.42it/s]

Group 5/7 (Arabs) successfully computed.

Group 6/7 (Young) started.

Loading price data: 100%| | 9/9 [00:06<00:00, 1.42it/s]

Calculating price indexes: 100%| | 9/9 [00:06<00:00, 1.34it/s]

Group 6/7 (Young) successfully computed.

Group 7/7 (Old) started.

Loading price data: 100%| | 9/9 [00:06<00:00, 1.34it/s]

Calculating price indexes: 100%| | 9/9 [00:06<00:00, 1.29it/s]

Group 7/7 (Old) successfully computed.

Group 1/10 (1) started.

Loading price data: 100%| | 9/9 [00:06<00:00, 1.41it/s]
 Calculating price indexes: 100%| | 9/9 [00:05<00:00, 1.68it/s]
 Group 1/10 (1) successfully computed.
 Group 2/10 (2) started.
 Loading price data: 100%| | 9/9 [00:06<00:00, 1.37it/s]
 Calculating price indexes: 100%| | 9/9 [00:05<00:00, 1.63it/s]
 Group 2/10 (2) successfully computed.
 Group 3/10 (3) started.
 Loading price data: 100%| | 9/9 [00:06<00:00, 1.41it/s]
 Calculating price indexes: 100%| | 9/9 [00:05<00:00, 1.64it/s]
 Group 3/10 (3) successfully computed.
 Group 4/10 (4) started.
 Loading price data: 100%| | 9/9 [00:06<00:00, 1.46it/s]
 Calculating price indexes: 100%| | 9/9 [00:05<00:00, 1.64it/s]
 Group 4/10 (4) successfully computed.
 Group 5/10 (5) started.
 Loading price data: 100%| | 9/9 [00:06<00:00, 1.43it/s]
 Calculating price indexes: 100%| | 9/9 [00:05<00:00, 1.67it/s]
 Group 5/10 (5) successfully computed.
 Group 6/10 (6) started.
 Loading price data: 100%| | 9/9 [00:06<00:00, 1.43it/s]
 Calculating price indexes: 100%| | 9/9 [00:05<00:00, 1.67it/s]
 Group 6/10 (6) successfully computed.
 Group 7/10 (7) started.
 Loading price data: 100%| | 9/9 [00:06<00:00, 1.44it/s]
 Calculating price indexes: 100%| | 9/9 [00:05<00:00, 1.59it/s]
 Group 7/10 (7) successfully computed.
 Group 8/10 (8) started.
 Loading price data: 100%| | 9/9 [00:06<00:00, 1.45it/s]
 Calculating price indexes: 100%| | 9/9 [00:05<00:00, 1.56it/s]
 Group 8/10 (8) successfully computed.
 Group 9/10 (9) started.
 Loading price data: 100%| | 9/9 [00:06<00:00, 1.46it/s]
 Calculating price indexes: 100%| | 9/9 [00:05<00:00, 1.52it/s]
 Group 9/10 (9) successfully computed.
 Group 10/10 (10) started.
 Loading price data: 100%| | 9/9 [00:06<00:00, 1.34it/s]
 Calculating price indexes: 100%| | 9/9 [00:06<00:00, 1.40it/s]

```

Group 10/10 (10) successfully computed.
Group 1/5 (1) started.

Loading price data: 100%|      | 9/9 [00:06<00:00, 1.37it/s]
Calculating price indexes: 100%|    | 9/9 [00:05<00:00, 1.75it/s]

Group 1/5 (1) successfully computed.
Group 2/5 (2) started.

Loading price data: 100%|      | 9/9 [00:06<00:00, 1.44it/s]
Calculating price indexes: 100%|    | 9/9 [00:08<00:00, 1.09it/s]

Group 2/5 (2) successfully computed.
Group 3/5 (3) started.

Loading price data: 100%|      | 9/9 [00:06<00:00, 1.42it/s]
Calculating price indexes: 100%|    | 9/9 [00:11<00:00, 1.32s/it]

Group 3/5 (3) successfully computed.
Group 4/5 (4) started.

Loading price data: 100%|      | 9/9 [00:06<00:00, 1.42it/s]
Calculating price indexes: 100%|    | 9/9 [00:10<00:00, 1.12s/it]

Group 4/5 (4) successfully computed.
Group 5/5 (5) started.

Loading price data: 100%|      | 9/9 [00:06<00:00, 1.38it/s]
Calculating price indexes: 100%|    | 9/9 [00:03<00:00, 2.71it/s]

Group 5/5 (5) successfully computed.
Calculating price indexes for general population...

Loading price data: 100%|      | 9/9 [00:06<00:00, 1.43it/s]
Calculating price indexes: 100%|    | 9/9 [00:26<00:00, 2.92s/it]

Done.

```

2 Output

2.1 Tables

```
[7]: # Observations tables
      output_obs_table(start_year, end_year, demo_mmb)
```

```

+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+
|          | 2014          | 2015          | 2016          | 2017          |
2018      | 2019          | 2020          | 2021          | 2022          |
|-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+

```


(10.24%)		957 (12.25%)		778 (14.06%)		767 (12.73%)		612 (11.2%)	
Total		8455 (100.0%)		8540 (100.0%)		8889 (100.0%)		8977 (100.0%)	
(100.0%)		7811 (100.0%)		5532 (100.0%)		6024 (100.0%)		5463 (100.0%)	

```
[9]: output_obs_table(start_year, end_year, ses_mmb)
```

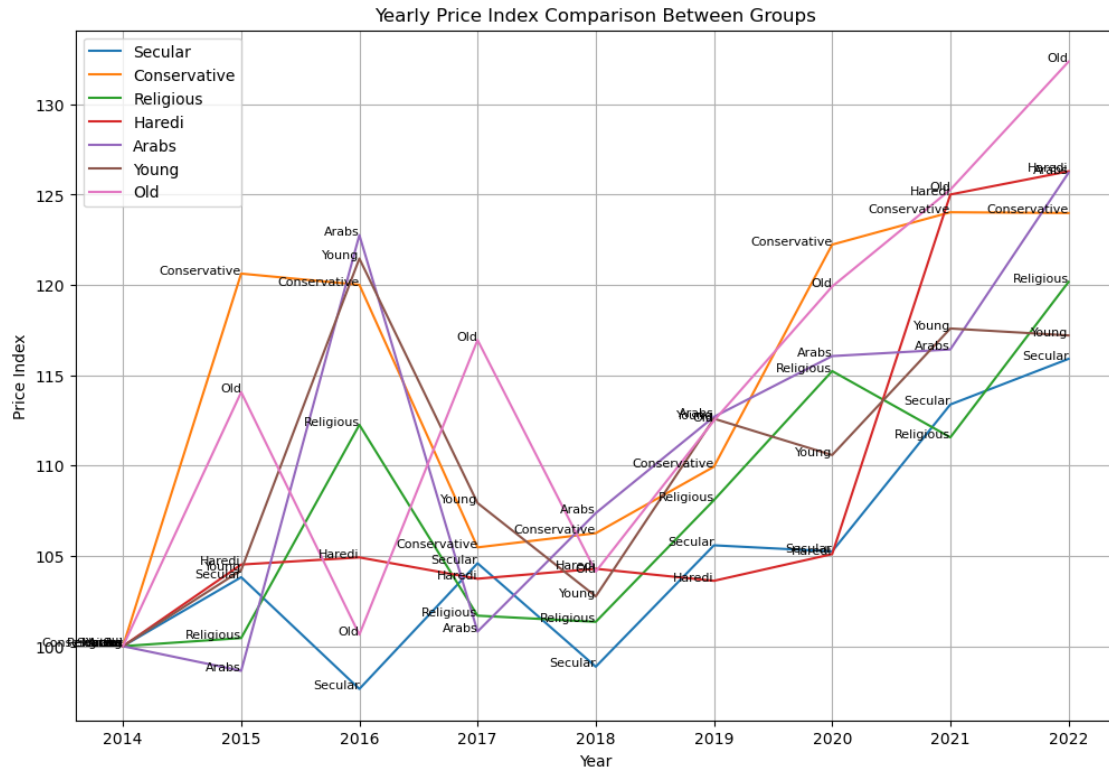
		2014			2015			2016			2017			2018
2019			2020			2021			2022					

1		612 (7.24%)		616 (7.21%)		695 (7.82%)		728 (8.11%)		654 (7.47%)		1146 (14.67%)		807 (14.59%)		1204 (19.99%)		1211 (22.17%)	
2		1912 (22.61%)		1916 (22.44%)		2021 (22.74%)		1977 (22.02%)		1882 (21.51%)		1017 (13.02%)		564 (10.2%)		804 (13.35%)		753 (13.78%)	
3		3415 (40.39%)		3495 (40.93%)		3523 (39.63%)		3627 (40.4%)		3624 (41.41%)		1911 (24.47%)		1490 (26.93%)		1503 (24.95%)		1352 (24.75%)	
4		2420 (28.62%)		2402 (28.13%)		2569 (28.9%)		2583 (28.77%)		2505 (28.63%)		3564 (45.63%)		2556 (46.2%)		2393 (39.72%)		2016 (36.9%)	
5		106 (1.25%)		121 (1.42%)		95 (1.07%)		102 (1.14%)		127 (1.45%)		189 (2.42%)		163 (2.95%)		153 (2.54%)		146 (2.67%)	
Total		8455 (100.0%)		8540 (100.0%)		8889 (100.0%)		8977 (100.0%)		8751 (100.0%)		7811 (100.0%)		5532 (100.0%)		6024 (100.0%)		5463 (100.0%)	

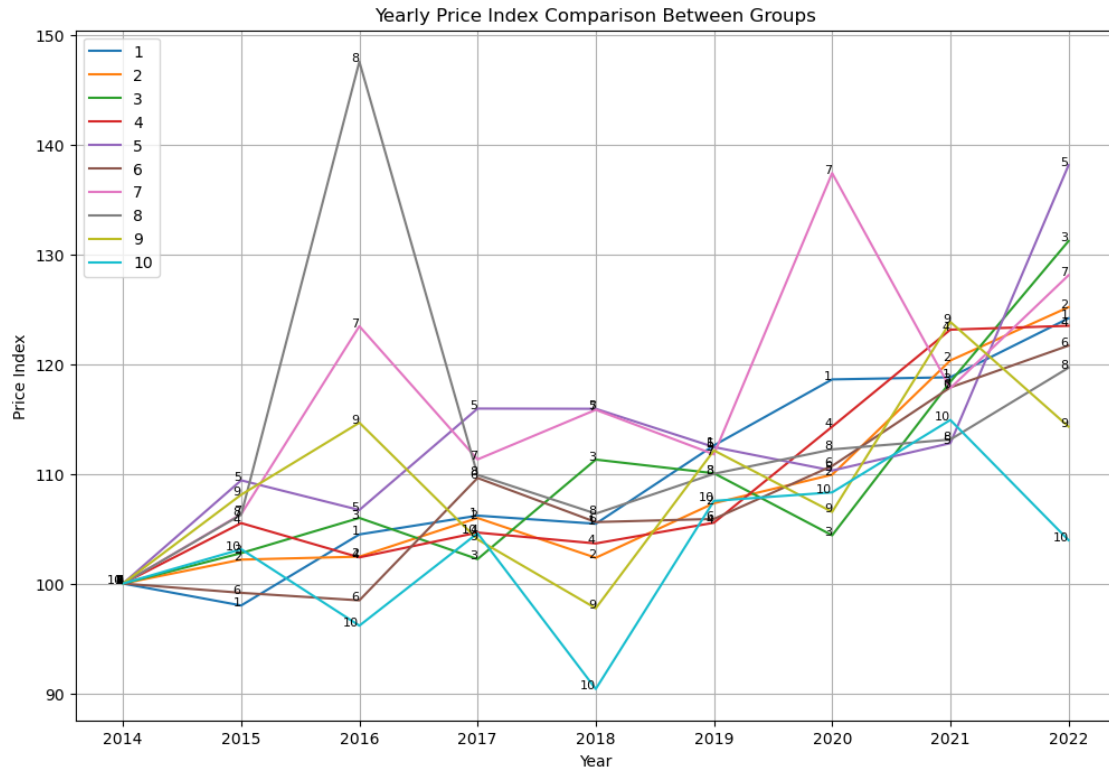
2.2 Plots

2.2.1 Yearly Price Index Comparison Between Groups

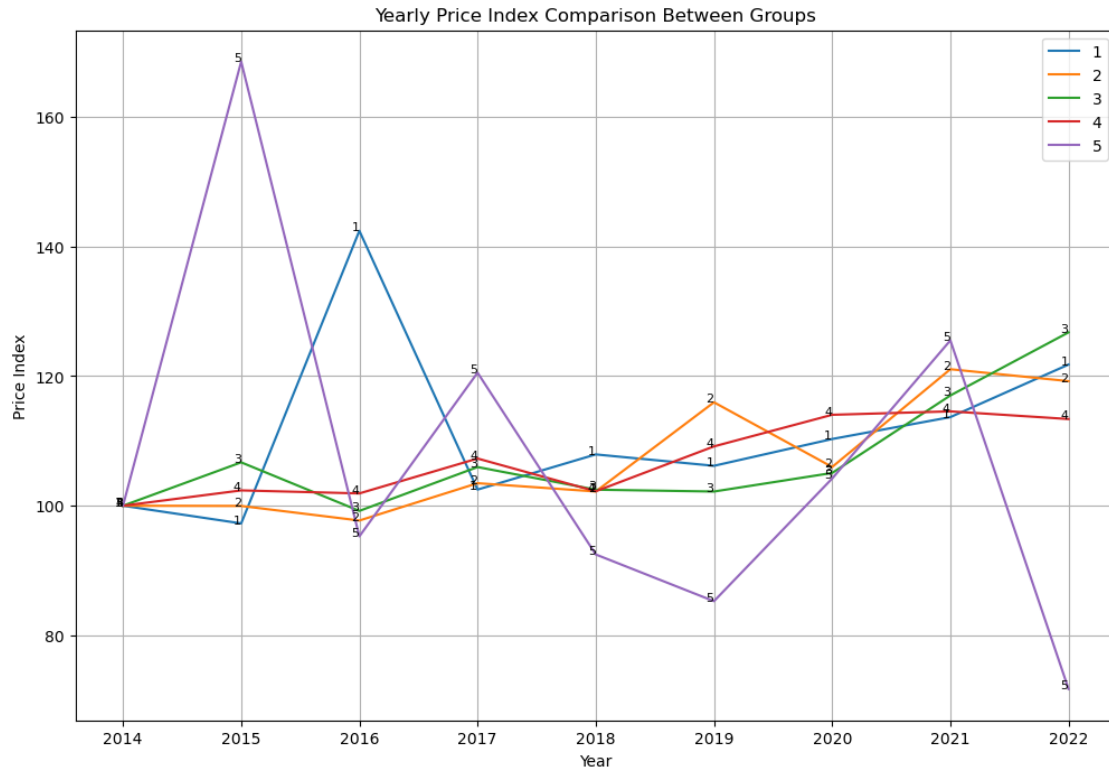
```
[10]: price_index_over_time(demo_analysis)
```



```
[11]: price_index_over_time(income_analysis)
```



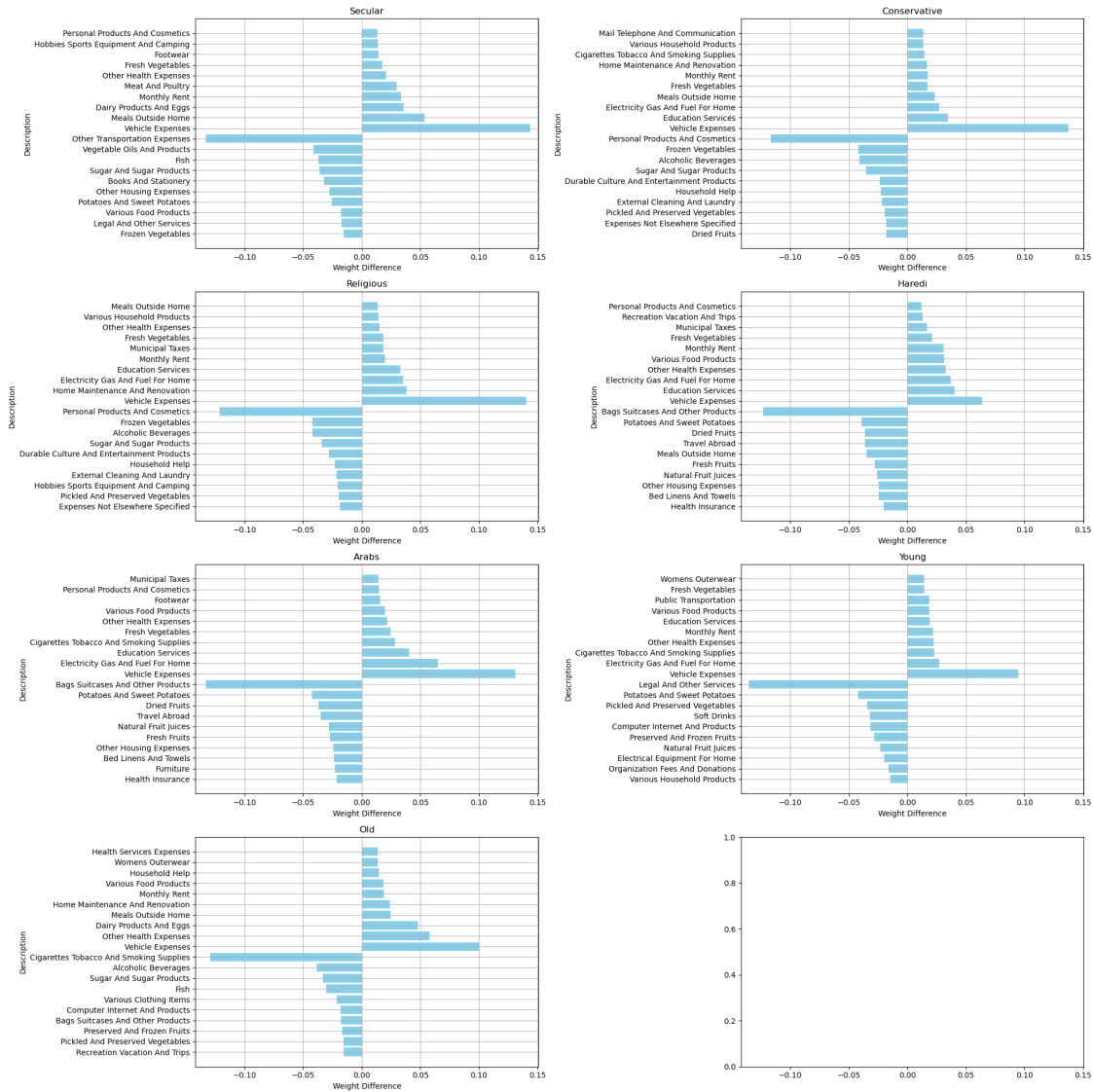
```
[12]: price_index_over_time(ses_analysis)
```

2.2.2 Top Weight Differences

```
[13]: # Define control group
weights_comparison_control = _
    ↳ gen_pop['combined_secondary_df'][gen_pop['combined_secondary_df']['Year'] == _
    ↳ comparison_year]
```

```
[14]: # Top weight differences - demographic groups
demo_comparison_groups = {}
for group in demo_analysis:
    demo_comparison_groups[group] = _
    ↳ demo_analysis[group]['combined_secondary_df'][demo_analysis[group]['combined_secondary_df']
    ↳ == comparison_year]
top_abs_weight_differences(demo_comparison_groups, weights_comparison_control, _
    ↳ top_n)
```



```
[15]: # Top weight differences - income groups
income_comparison_groups = {}
for group in income_analysis:
    income_comparison_groups[group] =
    ↪ income_analysis[group]['combined_secondary_df'][income_analysis[group]['combined_secondary_
    ↪ == comparison_year]
top_abs_weight_differences(income_comparison_groups,
    ↪ weights_comparison_control, top_n)
```

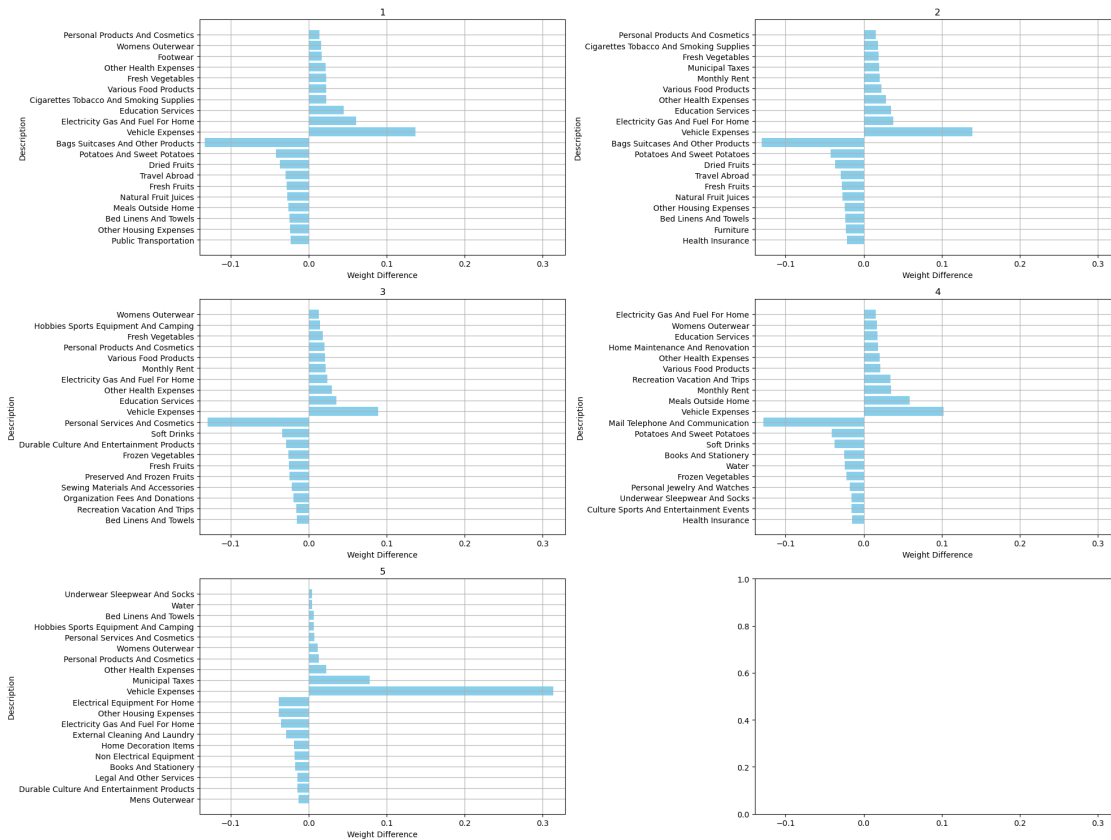


```
[16]: # Top weight differences - SES groups
ses_comparison_groups = {}
for group in ses_analysis:
```

```

ses_comparison_groups[group] =
    ↪ ses_analysis[group]['combined_secondary_df'][ses_analysis[group]['combined_secondary_df']['
    ↪ == comparison_year]
top_abs_weight_differences(ses_comparison_groups, weights_comparison_control,
    ↪ top_n)

```



2.2.3 Top Contributors to CPI Change

```

[17]: # Top contributors - demographic groups
demo_yearly_price_indexes = {}
for group in demo_analysis:
    demo_yearly_price_indexes[group] =
    ↪ demo_analysis[group]['yearly_price_index'][comparison_year]
top_price_index_contributors(demo_comparison_groups, demo_yearly_price_indexes,
    ↪ top_n)

```

Top 10 contributors to price index for Secular:

Year	prodcode	price_index	weight	description
contribution				

-----+-----+-----+-----+-----+-----+-----						
-----+-----+-----+-----+-----+-----+-----						
566	2022	378	89.9925	0.00519418	Computer Internet And	
Products	-0.32681					
569	2022	383	99.5922	0.152999	Vehicle Expenses	
	-0.392279					
570	2022	384	89.0032	0.00622973	Other Transportation	
Expenses	-0.430714					
545	2022	344	86.87	0.00591532	Bed Linens And Towels	
	-0.488311					
536	2022	331	81.7588	0.00579357	Water	
	-0.664437					
574	2022	393	95.3545	0.022941	Personal Products And	
Cosmetics	-0.670033					
549	2022	353	83.0515	0.00897687	Childrens And Infants	
Outerwear	-0.956554					
548	2022	352	91.3138	0.0227588	Womens Outerwear	
	-1.24289					
568	2022	382	78.544	0.0106267	Travel Abroad	
	-1.43351					
563	2022	374	65.6091	0.0284309	Recreation Vacation	
And Trips	-6.14735					
559	2022	364	154.784	0.0310156	Other Health Expenses	
	10.6829					
524	2022	308	125.379	0.0602227	Meals Outside Home	
	9.60925					
560	2022	371	138.432	0.0356662	Education Services	
	8.61797					
520	2022	304	123.729	0.0468637	Dairy Products And	
Eggs	6.99138					
516	2022	300	124.985	0.0408788	Bread Grains and	
Pastries	6.42143					
518	2022	302	127.305	0.037113	Meat And Poultry	
	6.37132					
538	2022	333	147.374	0.0213389	Home Maintenance And	
Renovation	6.35573					
543	2022	342	154.501	0.015947	Electrical Equipment	
For Home	5.46429					
525	2022	309	123.901	0.0266756	Various Food Products	
	4.00845					
527	2022	312	128.462	0.0209409	Fresh Vegetables	
	3.74731					

Top 10 contributors to price index for Conservative:

	Year	prodcode	price_index	weight	description
--	------	----------	-------------	--------	-------------

contribution						
-----+-----+-----+-----+-----+-----+-----						
-----+-----+-----+-----+-----+-----+-----						
557	2022	372	99.4088	0.00303119	Books And Stationery	
-0.00747284						
548	2022	356	93.9265	0.000690587	Sewing Materials And	
Accessories		-0.0174905				
550	2022	358	99.2861	0.0196068	Footwear	
-0.0583691						
573	2022	396	97.1972	0.00828651	Bags Suitcases And	
Other Products		-0.0968515				
560	2022	375	74.7173	0.00580631	Durable Culture And	
Entertainment Products		-0.612163				
541	2022	344	60.7187	0.00417253	Bed Linens And	
Towels		-0.683485				
556	2022	371	94.941	0.0372071	Education Services	
-0.784938						
538	2022	341	80.5107	0.0119751	Furniture	
-0.973244						
564	2022	382	35.8099	0.0111075	Travel Abroad	
-2.97323						
565	2022	383	88.4713	0.144016	Vehicle Expenses	
-6.92363						
558	2022	373	500.694	0.00834155	Culture Sports And	
Entertainment Events		13.9381				
514	2022	302	149.906	0.0572533	Meat And Poultry	
11.915						
512	2022	300	146.792	0.0494098	Bread Grains and	
Pastries		9.64118				
516	2022	304	138.328	0.0455244	Dairy Products And	
Eggs		7.27618				
555	2022	364	153.46	0.0271097	Other Health	
Expenses		6.0436				
537	2022	336	182.987	0.0174466	Municipal Taxes	
6.03759						
518	2022	306	171.974	0.0137384	Soft Drinks	
4.12342						
520	2022	308	127.934	0.0345013	Meals Outside Home	
4.01901						
523	2022	312	131.724	0.0287858	Fresh Vegetables	
3.80813						
521	2022	309	126.309	0.0298919	Various Food	
Products		3.27948				

Top 10 contributors to price index for Religious:

	Year	prodcode	price_index	weight	description
contribution					
564	2022	382	98.6177	0.0062039	Travel Abroad
-0.0425243					
551	2022	359	81.9172	0.00409703	Outerwear Not
Elsewhere Specified			-0.367378		
513	2022	301	91.5726	0.010723	Vegetable Oils And
Products			-0.448116		
559	2022	374	91.4126	0.0145867	Recreation Vacation
And Trips			-0.62115		
537	2022	336	91.9293	0.0259436	Municipal Taxes
-1.0383					
538	2022	341	77.9509	0.0107036	Furniture
-1.17031					
544	2022	352	85.3549	0.0202519	Womens Outerwear
-1.47074					
567	2022	385	72.2248	0.0155641	Mail Telephone And
Communication			-2.14368		
553	2022	362	38.1048	0.00815317	Dental Care
-2.50243					
534	2022	333	64.3794	0.0393873	Home Maintenance And
Renovation			-6.95722		
539	2022	342	318.568	0.0128422	Electrical Equipment
For Home			13.9189		
512	2022	300	137.487	0.0530547	Bread Grains and
Pastries			9.86246		
516	2022	304	134.045	0.0427873	Dairy Products And
Eggs			7.2235		
565	2022	383	108.262	0.147394	Vehicle Expenses
6.03839					
530	2022	322	151.121	0.0221327	Monthly Rent
5.61065					
514	2022	302	118.458	0.0608063	Meat And Poultry
5.56563					
533	2022	332	125.815	0.0420068	Electricity Gas And
Fuel For Home			5.37731		
558	2022	373	236.753	0.00792576	Culture Sports And
Entertainment Events			5.37473		
518	2022	306	164.299	0.0143379	Soft Drinks
4.57165					
520	2022	308	132.452	0.0249348	Meals Outside Home
4.01256					

Top 10 contributors to price index for Haredi:

-----+-----+						
	Year	prodcode	price_index	weight	description	
	contribution					
-----+-----+						
556	2022	374	96.014	0.0154709	Recreation Vacation	
And Trips		-0.234564				
542	2022	353	96.4975	0.0178572	Childrens And Infants	
Outerwear		-0.237905				
527	2022	322	97.0642	0.0343529	Monthly Rent	
	-0.383615					
572	2022	398	76.3228	0.00672771	Expenses Not	
Elsewhere Specified		-0.60591				
563	2022	384	77.6008	0.00756791	Other Transportation	
Expenses		-0.644792				
569	2022	395	54.462	0.00418396	Personal Jewelry And	
Watches		-0.724724				
564	2022	385	70.4385	0.0099662	Mail Telephone And	
Communication		-1.12064				
570	2022	396	81.4079	0.0165938	Bags Suitcases And	
Other Products		-1.17351				
534	2022	336	78.3189	0.0180558	Municipal Taxes	
	-1.48905					
550	2022	362	67.5589	0.0165571	Dental Care	
	-2.04311					
511	2022	302	155.286	0.048338	Meat And Poultry	
	10.1651					
562	2022	383	138.604	0.0678192	Vehicle Expenses	
	9.95864					
560	2022	381	167.306	0.0377573	Public Transportation	
	9.66642					
530	2022	332	162.567	0.039061	Electricity Gas And	
Fuel For Home		9.296				
509	2022	300	123.151	0.0747363	Bread Grains and	
Pastries		6.58125				
513	2022	304	126.962	0.062	Dairy Products And	
Eggs		6.35857				
520	2022	312	133.026	0.0320835	Fresh Vegetables	
	4.03046					
558	2022	376	177.104	0.012544	Hobbies Sports	
Equipment And Camping		3.67895				
532	2022	334	184.542	0.01133	Household Help	
	3.64346					
518	2022	309	123.391	0.0389825	Various Food Products	
	3.46848					

Top 10 contributors to price index for Arabs:

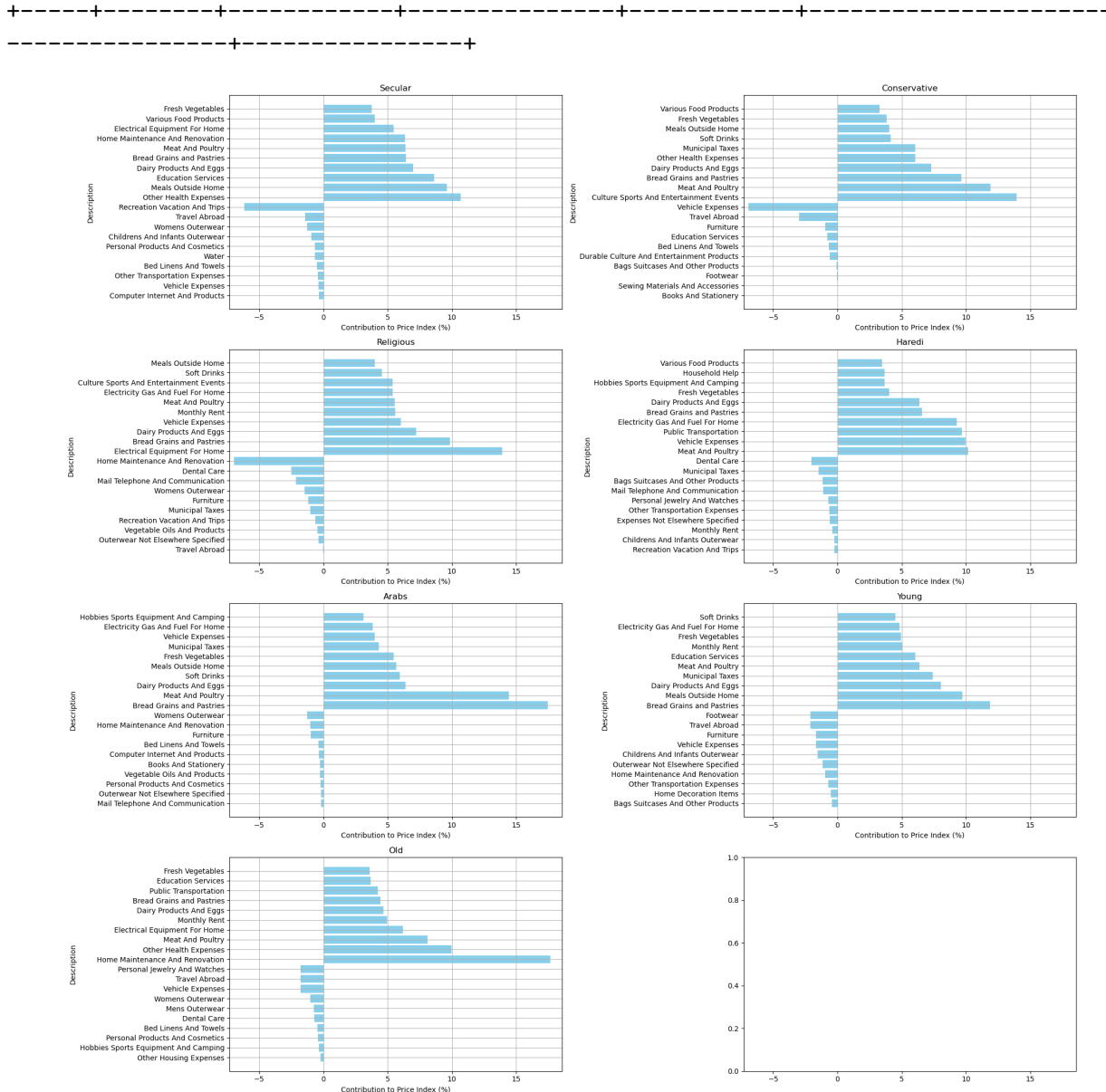
	Year	prodcode	price_index	weight	description	
contribution						
564	2022	385	98.024	0.0258086	Mail Telephone And	
Communication		-0.194586				
548	2022	359	85.1125	0.00353843	Outerwear Not	
Elsewhere Specified		-0.200994				
567	2022	393	97.1672	0.0193841	Personal Products And	
Cosmetics		-0.209511				
510	2022	301	95.1725	0.0148425	Vegetable Oils And	
Products		-0.273387				
554	2022	372	66.3604	0.00219518	Books And Stationery	
-0.281754						
559	2022	378	76.0945	0.00362341	Computer Internet And	
Products		-0.330495				
538	2022	344	76.1356	0.00414082	Bed Linens And Towels	
-0.377038						
535	2022	341	56.9588	0.00602222	Furniture	
-0.988987						
531	2022	333	77.8974	0.0118888	Home Maintenance And	
Renovation		-1.0026				
541	2022	352	86.6414	0.0247912	Womens Outerwear	
-1.26359						
509	2022	300	201.868	0.0449276	Bread Grains and	
Pastries		17.4622				
511	2022	302	142.769	0.0885504	Meat And Poultry	
14.4501						
513	2022	304	143.573	0.03846	Dairy Products And	
Eggs		6.39402				
515	2022	306	199.019	0.0157401	Soft Drinks	
5.94671						
517	2022	308	159.245	0.025029	Meals Outside Home	
5.65773						
520	2022	312	140.272	0.0355321	Fresh Vegetables	
5.45969						
534	2022	336	172	0.0156874	Municipal Taxes	
4.30956						
562	2022	383	107.745	0.135064	Vehicle Expenses	
3.991						
530	2022	332	115.045	0.0668388	Electricity Gas And	
Fuel For Home		3.83688				
558	2022	376	139.244	0.0208989	Hobbies Sports	
Equipment And Camping		3.12926				

Top 10 contributors to price index for Young:

+-----+-----+-----+-----+-----+-----+-----+						
-----+-----+-----+						
		Year	prodcode	price_index	weight	description
	contribution					
-----+-----+-----+-----+-----+-----+-----+						
-----+-----+-----+-----+-----+-----+-----+						
	572	2022	396	92.8536	0.0101931	Bags Suitcases And
Other Products			-0.423405			
	541	2022	345	85.1355	0.00595875	Home Decoration Items
	-0.514836					
	565	2022	384	80.9582	0.00661473	Other Transportation
Expenses			-0.732123			
	533	2022	333	90.4661	0.0173099	Home Maintenance And
Renovation			-0.959242			
	550	2022	359	42.4665	0.00350473	Outerwear Not
Elsewhere Specified			-1.17203			
	544	2022	353	71.1477	0.00938386	Childrens And Infants
Outerwear			-1.57371			
	564	2022	383	97.5235	0.116183	Vehicle Expenses
	-1.67243					
	537	2022	341	82.8686	0.0168098	Furniture
	-1.67385					
	563	2022	382	65.1486	0.0103464	Travel Abroad
	-2.09591					
	549	2022	358	82.368	0.0205042	Footwear
	-2.1014					
	511	2022	300	140.58	0.0502371	Bread Grains and
Pastries			11.8494			
	519	2022	308	133.613	0.0497839	Meals Outside Home
	9.72652					
	515	2022	304	130.738	0.0449988	Dairy Products And
Eggs			8.03964			
	536	2022	336	181.949	0.0155164	Municipal Taxes
	7.39093					
	513	2022	302	121.205	0.0516246	Meat And Poultry
	6.36296					
	555	2022	371	129.067	0.0359203	Education Services
	6.06889					
	529	2022	322	122.057	0.0390886	Monthly Rent
	5.01136					
	522	2022	312	133.447	0.0254743	Fresh Vegetables
	4.95249					
	532	2022	332	130.202	0.0274779	Electricity Gas And
Fuel For Home			4.82381			
	517	2022	306	154.704	0.0142116	Soft Drinks
	4.51881					
+-----+-----+-----+-----+-----+-----+-----+						

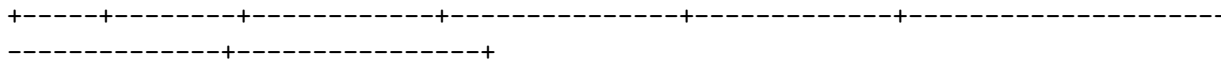
-----+-----+
Top 10 contributors to price index for Old:

-----+-----+-----+-----+-----+-----+-----						
-----+-----+-----+-----+-----+-----+-----						
	Year	prodcode	price_index	weight	description	
contribution						
-----+-----+-----+-----+-----+-----+-----						
-----+-----+-----+-----+-----+-----+-----						
533	2022	324	58.6786	0.00180675	Other Housing	
Expenses			-0.230704			
563	2022	376	92.2031	0.014504	Hobbies Sports	
Equipment And Camping			-0.349457			
572	2022	393	93.1725	0.0209057	Personal Products And	
Cosmetics			-0.441075			
543	2022	344	71.7184	0.00533425	Bed Linens And Towels	
	-0.466187					
555	2022	362	83.3308	0.0135521	Dental Care	
	-0.69808					
545	2022	351	64.9884	0.0069352	Mens Outerwear	
	-0.750333					
546	2022	352	83.0314	0.0194993	Womens Outerwear	
	-1.02246					
567	2022	383	94.5295	0.104889	Vehicle Expenses	
	-1.77313					
566	2022	382	45.347	0.0105424	Travel Abroad	
	-1.78047					
574	2022	395	27.1591	0.0079232	Personal Jewelry And	
Watches			-1.78344			
536	2022	333	324.827	0.0254387	Home Maintenance And	
Renovation			17.6737			
557	2022	364	153.419	0.0604453	Other Health Expenses	
	9.97803					
516	2022	302	145.493	0.057642	Meat And Poultry	
	8.10345					
541	2022	342	210.063	0.0182019	Electrical Equipment	
For Home			6.19072			
532	2022	322	183.469	0.0192858	Monthly Rent	
	4.97443					
518	2022	304	127.351	0.0553043	Dairy Products And	
Eggs			4.67422			
514	2022	300	131.271	0.0457951	Bread Grains and	
Pastries			4.42533			
565	2022	381	192.63	0.0148011	Public Transportation	
	4.23672					
558	2022	371	226.192	0.00946639	Education Services	
	3.69147					
525	2022	312	133.301	0.0351801	Fresh Vegetables	
	3.62023					



```
[18]: # Top contributors - income groups
income_yearly_price_indexes = {}
for group in income_analysis:
    income_yearly_price_indexes[group] =
    ↪ income_analysis[group]['yearly_price_index'][comparison_year]
top_price_index_contributors(income_comparison_groups,
    ↪ income_yearly_price_indexes, top_n)
```

Top 10 contributors to price index for 1:



	Year	prodcode	price_index	weight	description
contribution					

526	2022	324	847.826	1.11658e-05	Other Housing
Expenses		0.0345508			
530	2022	334	64.9797	0.00045011	Household Help
-0.0652237					
568	2022	396	96.3681	0.0120208	Bags Suitcases And
Other Products		-0.180645			
565	2022	393	96.027	0.0199125	Personal Products
And Cosmetics		-0.327348			
552	2022	372	65.3229	0.0062701	Books And Stationery
-0.89967					
545	2022	358	87.1616	0.020429	Footwear
-1.08523					
508	2022	301	73.7992	0.0139478	Vegetable Oils And
Products		-1.51212			
562	2022	385	80.7685	0.0209617	Mail Telephone And
Communication		-1.66804			
560	2022	383	90.0981	0.0759968	Vehicle Expenses
-3.11372					
551	2022	371	69.8089	0.0344173	Education Services
-4.29955					
507	2022	300	165.711	0.0657057	Bread Grains and
Pastries		17.8652			
558	2022	381	196.857	0.0228458	Public
Transportation		9.15593			
511	2022	304	136.263	0.0582873	Dairy Products And
Eggs		8.74583			
525	2022	322	130.47	0.0578095	Monthly Rent
7.28839					
509	2022	302	121.574	0.0734852	Meat And Poultry
6.55981					
518	2022	312	140.573	0.0358719	Fresh Vegetables
6.02222					
550	2022	364	157.418	0.0248076	Other Health
Expenses		5.89389			
513	2022	306	169.199	0.0174946	Soft Drinks
5.0092					
528	2022	332	117.478	0.0550543	Electricity Gas And
Fuel For Home		3.98147			
516	2022	309	126.185	0.0334603	Various Food
Products		3.62539			

Top 10 contributors to price index for 2:

-----+-----+-----+-----+-----+-----+-----						
	Year	prodcode	price_index	weight	description	
contribution						
-----+-----+-----+-----+-----+-----+-----						
533	2022	341	77.3388	0.00507101	Furniture	
-0.456414						
551	2022	371	96.0185	0.043361	Education Services	
-0.68569						
567	2022	396	83.8245	0.0109421	Bags Suitcases And	
Other Products			-0.702977			
560	2022	384	50.7974	0.00392297	Other Transportation	
Expenses			-0.766628			
508	2022	301	78.804	0.0138561	Vegetable Oils And	
Products			-1.16647			
555	2022	375	32.0622	0.00508263	Durable Culture And	
Entertainment Products			-1.37145			
548	2022	362	65.0189	0.0103623	Dental Care	
-1.43969						
540	2022	353	73.4165	0.014271	Childrens And Infants	
Outerwear			-1.50678			
559	2022	383	94.7416	0.0852648	Vehicle Expenses	
-1.78076						
561	2022	385	66.032	0.0156225	Mail Telephone And	
Communication			-2.10767			
509	2022	302	155.503	0.0724602	Meat And Poultry	
15.9734						
507	2022	300	146.343	0.0595867	Bread Grains and	
Pastries			10.9676			
525	2022	322	158.923	0.039831	Monthly Rent	
9.32147						
558	2022	381	201.461	0.0219503	Public Transportation	
8.84551						
511	2022	304	135.387	0.0548356	Dairy Products And	
Eggs			7.70712			
532	2022	336	233.923	0.0136698	Municipal Taxes	
7.27105						
518	2022	312	140.801	0.0341586	Fresh Vegetables	
5.53541						
565	2022	394	279.459	0.00766872	Legal And Other	
Services			5.46599			
528	2022	332	121.263	0.0583551	Electricity Gas And	
Fuel For Home			4.92807			
513	2022	306	172.135	0.0167598	Soft Drinks	
4.80167						
-----+-----+-----+-----+-----+-----+-----						

Top 10 contributors to price index for 3:

+-----+-----+-----+-----+-----+-----+-----+											
+-----+-----+-----+-----+-----+-----+-----+											
	Year		prodcode		price_index		weight		description		
	contribution										
+-----+-----+-----+-----+-----+-----+-----+											
+-----+-----+-----+-----+-----+-----+-----+											
	545		2022		357		23.088		0.000408736		External Cleaning
And Laundry					-0.100738						
	555		2022		374		94.8722		0.0065029		Recreation Vacation
And Trips					-0.106855						
	537		2022		344		93.6702		0.00670396		Bed Linens And
Towels					-0.13598						
	527		2022		324		37.1898		0.000876978		Other Housing
Expenses					-0.176511						
	550		2022		363		87.4422		0.00629067		Health Services
Expenses					-0.253143						
	569		2022		396		91.416		0.00993316		Bags Suitcases And
Other Products					-0.273233						
	562		2022		384		76.8486		0.00414743		Other Transportation
Expenses					-0.307688						
	541		2022		353		86.5683		0.0159454		Childrens And
Infants Outerwear					-0.686314						
	549		2022		362		58.7962		0.0185862		Dental Care
-2.45405											
	526		2022		322		78.2016		0.0472554		Monthly Rent
-3.30089											
	554		2022		373		1614.47		0.00515237		Culture Sports And
Entertainment Events					25.0047						
	510		2022		302		135.444		0.0618777		Meat And Poultry
7.02793											
	508		2022		300		132.22		0.0585336		Bread Grains and
Pastries					6.04346						
	561		2022		383		115.043		0.117436		Vehicle Expenses
5.66096											
	512		2022		304		127.892		0.0529982		Dairy Products And
Eggs					4.73691						
	529		2022		332		136.904		0.0348091		Electricity Gas And
Fuel For Home					4.1164						
	551		2022		364		142.422		0.0290644		Other Health
Expenses					3.95102						
	533		2022		336		169.675		0.0171791		Municipal Taxes
3.83556											
	516		2022		308		134.219		0.028262		Meals Outside Home
3.09906											
	514		2022		306		159.856		0.0159266		Soft Drinks
3.05481											
+-----+-----+-----+-----+-----+-----+-----+											
+-----+-----+-----+-----+-----+-----+-----+											

Top 10 contributors to price index for 4:

+-----+-----+-----+-----+-----+-----+-----+						
-----+-----+						
		Year	prodcode	price_index	weight	description
	contribution					
-----+-----+-----+-----+-----+-----+-----+						
-----+-----+-----+-----+-----+-----+-----+						
565	2022		384	98.9272	0.00538498	Other Transportation
Expenses				-0.024601		
524	2022		314	94.8235	0.00216788	Frozen Vegetables
	-0.047787					
557	2022		373	87.5169	0.00533282	Culture Sports And
Entertainment Events				-0.283475		
543	2022		352	93.9517	0.0214993	Womens Outerwear
	-0.553728					
530	2022		324	7.35943	0.00149106	Other Housing
Expenses				-0.58821		
564	2022		383	98.4971	0.110544	Vehicle Expenses
	-0.70747					
561	2022		378	54.9442	0.00532631	Computer Internet And
Products				-1.02191		
558	2022		374	75.4664	0.0131428	Recreation Vacation
And Trips				-1.37305		
537	2022		341	26.2936	0.00781839	Furniture
	-2.45391					
533	2022		333	54.7657	0.0535486	Home Maintenance And
Renovation				-10.3146		
529	2022		322	156.893	0.041837	Monthly Rent
	10.1358					
532	2022		332	174.362	0.0297418	Electricity Gas And
Fuel For Home				9.41791		
511	2022		300	136.749	0.0562135	Bread Grains and
Pastries				8.79664		
513	2022		302	136.765	0.0552556	Meat And Poultry
	8.65053					
515	2022		304	125.76	0.0548539	Dairy Products And
Eggs				6.01721		
562	2022		381	165.631	0.0194252	Public Transportation
	5.42887					
554	2022		364	136.115	0.0309768	Other Health Expenses
	4.76391					
522	2022		312	133.492	0.0300918	Fresh Vegetables
	4.29166					
519	2022		308	129.934	0.0325456	Meals Outside Home
	4.14853					
553	2022		363	263.369	0.00571722	Health Services
Expenses				3.97734		
+-----+-----+-----+-----+-----+-----+-----+						

-----+-----+
Top 10 contributors to price index for 5:

-----+-----+-----+-----+-----+-----+-----						
-----+-----+-----+-----+-----+-----+-----						
	Year	prodcode	price_index	weight	description	
contribution						
-----+-----+-----+-----+-----+-----+-----						
-----+-----+-----+-----+-----+-----+-----						
521	2022	311	68.3195	0.00418857	Potatoes And Sweet	
Potatoes			-0.348135			
565	2022	384	73.4694	0.00601511	Other Transportation	
Expenses			-0.418679			
569	2022	393	93.3452	0.0268784	Personal Products And	
Cosmetics			-0.469277			
558	2022	374	87.7005	0.0146868	Recreation Vacation	
And Trips			-0.473919			
537	2022	341	51.9326	0.00551205	Furniture	
	-0.69511					
559	2022	375	53.545	0.00763875	Durable Culture And	
Entertainment Products			-0.93099			
549	2022	358	81.4213	0.0208434	Footwear	
	-1.01596					
544	2022	353	71.2283	0.0159023	Childrens And Infants	
Outerwear			-1.20036			
552	2022	362	51.8311	0.0113451	Dental Care	
	-1.43372					
543	2022	352	79.9802	0.0294551	Womens Outerwear	
	-1.54706					
560	2022	376	577.531	0.0205855	Hobbies Sports	
Equipment And Camping			25.7901			
564	2022	383	129.75	0.122034	Vehicle Expenses	
	9.52485					
536	2022	336	208.953	0.0265012	Municipal Taxes	
	7.5752					
513	2022	302	138.5	0.0544378	Meat And Poultry	
	5.49861					
554	2022	364	157.455	0.0326529	Other Health Expenses	
	4.92193					
511	2022	300	132.345	0.0548878	Bread Grains and	
Pastries			4.65768			
515	2022	304	133.441	0.0523265	Dairy Products And	
Eggs			4.59082			
555	2022	371	137.381	0.0412449	Education Services	
	4.04494					
519	2022	308	137.133	0.0391086	Meals Outside Home	
	3.80998					
527	2022	317	295.155	0.00659449	Dried Fruits	
	3.37638					

Top 10 contributors to price index for 6:

	Year	prodcode	price_index	weight	description
contribution					
529	2022	322	97.6119	0.0298816	Monthly Rent
-0.329188					
565	2022	384	82.6941	0.00722213	Other Transportation Expenses
-0.576553					
537	2022	341	88.8822	0.0117877	Furniture
-0.604546					
540	2022	344	56.1787	0.00328715	Bed Linens And Towels
-0.664484					
564	2022	383	98.7463	0.123579	Vehicle Expenses
-0.714699					
561	2022	378	63.2925	0.00465698	Computer Internet And Products
-0.788568					
558	2022	374	79.47	0.00930887	Recreation Vacation And Trips
-0.881587					
543	2022	352	89.6381	0.0251565	Womens Outerwear
-1.20245					
552	2022	362	38.3627	0.00933863	Dental Care
-2.65525					
555	2022	371	78.8452	0.0388103	Education Services
-3.78734					
538	2022	342	496.447	0.00757378	Electrical Equipment For Home
13.8509					
554	2022	364	168.426	0.0343708	Other Health Expenses
10.8491					
515	2022	304	136.18	0.0541998	Dairy Products And Eggs
9.04576					
519	2022	308	138.813	0.0443525	Meals Outside Home
7.94098					
511	2022	300	124.124	0.0537443	Bread Grains and Pastries
5.98071					
567	2022	391	155.911	0.0219419	Cigarettes Tobacco And Smoking Supplies
5.65912					
522	2022	312	136.566	0.027654	Fresh Vegetables
4.66465					
520	2022	309	130.384	0.0329374	Various Food Products
4.61653					
517	2022	306	164.04	0.013668	Soft Drinks
4.03773					
544	2022	353	169.659	0.0115679	Childrens And Infants

Outerwear | 3.71714 |

Top 10 contributors to price index for 7:

	Year	prodcode	price_index	weight	description
contribution					
542	2022	345	92.6014	0.00746788	Home Decoration Items
-0.196718					
559	2022	374	96.1977	0.0159628	Recreation Vacation
And Trips		-0.216099			
575	2022	398	80.8766	0.00516483	Expenses Not
Elsewhere Specified		-0.351655			
566	2022	384	74.2814	0.00471865	Other Transportation
Expenses		-0.432078			
532	2022	331	77.2536	0.00696647	Water
-0.564184					
541	2022	344	62.6433	0.00468132	Bed Linens And Towels
-0.622634					
545	2022	353	79.9263	0.0100732	Childrens And Infants
Outerwear		-0.719933			
550	2022	358	86.0458	0.0149745	Footwear
-0.743963					
553	2022	362	59.7104	0.00616431	Dental Care
-0.884247					
565	2022	383	80.2534	0.128534	Vehicle Expenses
-9.03664					
534	2022	333	797.094	0.0167881	Home Maintenance And
Renovation		41.6667			
520	2022	308	127.652	0.0560296	Meals Outside Home
5.51617					
555	2022	364	146.956	0.0320596	Other Health Expenses
5.35972					
516	2022	304	123.9	0.0517412	Dairy Products And
Eggs		4.40273			
512	2022	300	123.511	0.0506323	Bread Grains and
Pastries		4.23834			
514	2022	302	125.319	0.045075	Meat And Poultry
4.06323					
537	2022	336	129.876	0.0328012	Municipal Taxes
3.48909					
571	2022	394	336.968	0.00409595	Legal And Other
Services		3.45574			
523	2022	312	133.845	0.0241659	Fresh Vegetables
2.91198					

521	2022	309	122.48	0.0351829	Various Food Products
	2.8159				

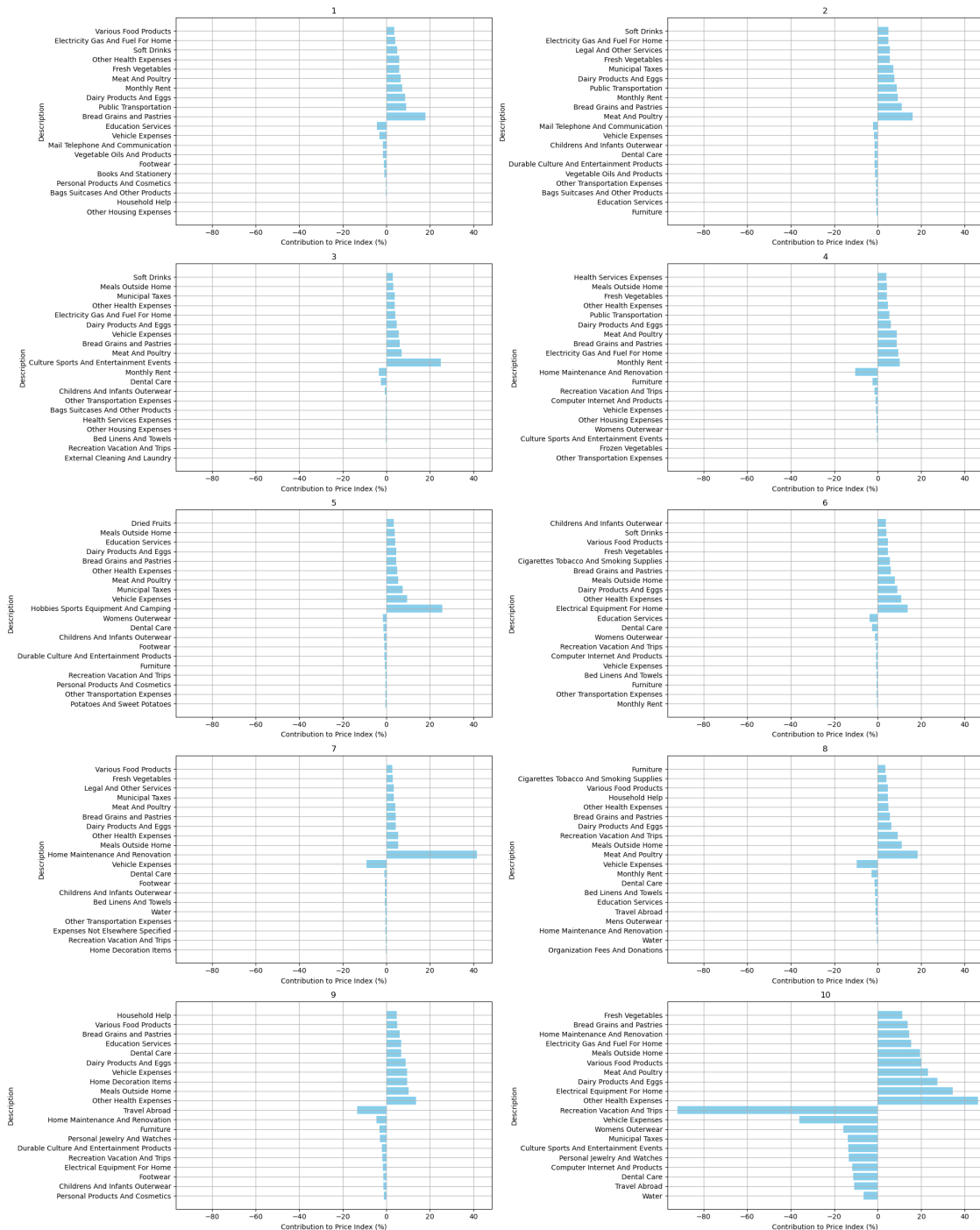
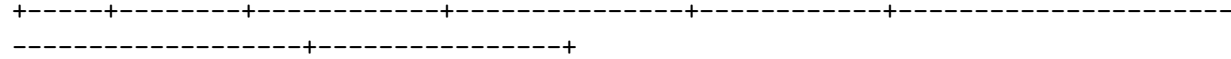
-----+-----+-----+-----+-----+-----
-----+-----+-----+-----+-----+-----

Top 10 contributors to price index for 8:

-----+-----+-----+-----+-----+-----
-----+-----+-----+-----+-----+-----

		Year	prodcode	price_index	weight	description
	contribution					
	-----+-----+-----+-----+-----+-----					
	-----+-----+-----+-----+-----+-----					
572	2022	397	88.6832	0.00361639	Organization Fees And	
Donations		-0.208146				
530	2022	331	81.8614	0.00484465	Water	
	-0.446925					
532	2022	333	93.0336	0.0175163	Home Maintenance And	
Renovation		-0.620609				
541	2022	351	89.5536	0.0136713	Mens Outerwear	
	-0.726348					
562	2022	382	75.8641	0.00788751	Travel Abroad	
	-0.968217					
554	2022	371	95.1732	0.0418126	Education Services	
	-1.02645					
539	2022	344	60.3755	0.006114	Bed Linens And Towels	
	-1.23213					
551	2022	362	80.9212	0.0152811	Dental Care	
	-1.48277					
528	2022	322	78.8222	0.0257416	Monthly Rent	
	-2.77259					
563	2022	383	83.6339	0.115968	Vehicle Expenses	
	-9.65277					
512	2022	302	184.815	0.0424111	Meat And Poultry	
	18.2945					
518	2022	308	136.664	0.0589785	Meals Outside Home	
	10.9977					
557	2022	374	196.989	0.0188404	Recreation Vacation	
And Trips		9.2936				
514	2022	304	125.034	0.0496635	Dairy Products And	
Eggs		6.32312				
510	2022	300	122.497	0.0482854	Bread Grains and	
Pastries		5.52482				
553	2022	364	133.146	0.0285607	Other Health Expenses	
	4.81474					
533	2022	334	171.816	0.0126775	Household Help	
	4.63043					
519	2022	309	129.335	0.0306021	Various Food Products	
	4.56569					
566	2022	391	153.696	0.0145115	Cigarettes Tobacco	

Renovation		14.4046	
515	2022	300	116.006 0.0341323 Bread Grains and Pastries
526	2022	312	122.085 0.0201658 Fresh Vegetables
	11.2766		



```
[19]: # Top contributors - SES groups
ses_yearly_price_indexes = {}
for group in ses_analysis:
    ses_yearly_price_indexes[group] =
    ↪ses_analysis[group]['yearly_price_index'][comparison_year]
top_price_index_contributors(ses_comparison_groups, ses_yearly_price_indexes,
    ↪top_n)
```

Top 10 contributors to price index for 1:

	Year	prodcode	price_index	weight	description
contribution					
567	2022	393	94.5115	0.0189136	Personal Products And
Cosmetics		-0.476603			
538	2022	344	70.9441	0.00367218	Bed Linens And Towels
-0.489877					
547	2022	358	93.6569	0.0241719	Footwear
-0.703948					
564	2022	385	89.7023	0.0262741	Mail Telephone And
Communication		-1.24221			
561	2022	382	53.3917	0.00665749	Travel Abroad
-1.42463					
553	2022	371	92.9469	0.0461575	Education Services
-1.49469					
510	2022	301	68.7517	0.0136197	Vegetable Oils And
Products		-1.95399			
530	2022	332	92.043	0.0633869	Electricity Gas And
Fuel For Home		-2.31568			
550	2022	362	62.4015	0.0139043	Dental Care
-2.40021					
541	2022	352	75.6173	0.0288471	Womens Outerwear
-3.22933					
511	2022	302	161.56	0.0848917	Meat And Poultry
23.9936					
509	2022	300	193.47	0.0488368	Bread Grains and
Pastries		20.9578			
562	2022	383	113.696	0.140683	Vehicle Expenses
8.8466					
513	2022	304	135.071	0.0392572	Dairy Products And
Eggs		6.32116			
555	2022	373	500.306	0.00330758	Culture Sports And
Entertainment Events		6.079			

515	2022	306	167.245	0.0163228	Soft Drinks
	5.03947				
534	2022	336	166.163	0.0131815	Municipal Taxes
	4.00412				
520	2022	312	124.196	0.0335039	Fresh Vegetables
	3.72188				
565	2022	391	123.803	0.0296201	Cigarettes Tobacco
And Smoking Supplies		3.23706			
517	2022	308	131.57	0.0207294	Meals Outside Home
	3.00463				

Top 10 contributors to price index for 2:

	Year	prodcode	price_index	weight	description
contribution					

566	2022	392	92.2932	0.00807464	Personal Services And
Cosmetics		-0.32376			
540	2022	351	93.1688	0.0109057	Mens Outerwear
-0.387591					
559	2022	378	82.5418	0.00441163	Computer Internet And
Products		-0.400701			
538	2022	344	74.1673	0.004918	Bed Linens And Towels
-0.660969					
557	2022	375	55.9484	0.00476861	Durable Culture And
Entertainment Products		-1.09289			
541	2022	352	87.8349	0.0195504	Womens Outerwear
-1.23735					
556	2022	374	73.2953	0.0117894	Recreation Vacation
And Trips		-1.63797			
542	2022	353	77.0894	0.0139869	Childrens And Infants
Outerwear		-1.66717			
531	2022	333	81.5898	0.0200907	Home Maintenance And
Renovation		-1.92432			
562	2022	383	86.2482	0.143409	Vehicle Expenses
-10.2603					
530	2022	332	150.265	0.0400119	Electricity Gas And
Fuel For Home		10.4635			
517	2022	308	175.787	0.0264344	Meals Outside Home
10.4229					
509	2022	300	137.048	0.0516882	Bread Grains and
Pastries		9.96271			
511	2022	302	128.232	0.057717	Meat And Poultry
8.47747					
513	2022	304	126.901	0.0468789	Dairy Products And

Eggs				6.56099		
518	2022		309	135.444	0.030269	Various Food Products
	5.58162					
515	2022		306	175.43	0.0136333	Soft Drinks
	5.35023					
552	2022		364	133.971	0.0296105	Other Health Expenses
	5.23331					
560	2022		381	148.672	0.0203753	Public Transportation
	5.15948					
569	2022		395	513.814	0.00235069	Personal Jewelry And
Watches				5.06086		

Top 10 contributors to price index for 3:

	Year	prodcode	price_index	weight	description
contribution					
545	2022	352	98.9802	0.0240724	Womens Outerwear
-0.0917955					
563	2022	378	59.4512	0.00185987	Computer Internet And
Products		-0.281996			
533	2022	331	85.6396	0.00737733	Water
-0.39614					
566	2022	383	98.8831	0.108132	Vehicle Expenses
-0.4516					
565	2022	382	84.301	0.00862117	Travel Abroad
-0.506082					
542	2022	344	61.7979	0.00626812	Bed Linens And Towels
-0.895378					
539	2022	341	81.2189	0.0136645	Furniture
-0.959614					
573	2022	395	59.4762	0.00657219	Personal Jewelry And
Watches		-0.995871			
568	2022	385	69.8652	0.0134768	Mail Telephone And
Communication		-1.51857			
554	2022	362	46.7769	0.00903736	Dental Care
-1.79856					
540	2022	342	391.398	0.0162723	Electrical Equipment
For Home		17.7303			
556	2022	364	171.929	0.0320574	Other Health Expenses
8.62208					
515	2022	302	146.674	0.047017	Meat And Poultry
8.20569					
559	2022	373	285.134	0.0106836	Culture Sports And
Entertainment Events		7.39581			

517	2022	304	134.964	0.0546214	Dairy Products And Eggs
521	2022	308	133.897	0.0428703	Meals Outside Home
535	2022	333	151.461	0.0251853	Home Maintenance And Renovation
513	2022	300	123.432	0.0525353	Bread Grains and Pastries
522	2022	309	126.371	0.0319985	Various Food Products
564	2022	381	153.695	0.015318	Public Transportation

Top 10 contributors to price index for 4:

	Year	prodcode	price_index	weight	description
contribution					
525	2022	311	83.7636	0.00301799	Potatoes And Sweet Potatoes
545	2022	345	91.4345	0.00817238	Home Decoration Items
565	2022	378	85.8326	0.00545572	Computer Internet And Products
553	2022	358	94.8496	0.0164294	Footwear
569	2022	384	85.2357	0.00699941	Other Transportation Expenses
546	2022	351	89.3609	0.0107864	Mens Outerwear
547	2022	352	92.1818	0.024205	Womens Outerwear
537	2022	333	89.4631	0.0260273	Home Maintenance And Renovation
567	2022	382	44.4381	0.0141145	Travel Abroad
562	2022	374	71.6668	0.0381526	Recreation Vacation And Trips
568	2022	383	114.902	0.116307	Vehicle Expenses
523	2022	308	121.479	0.0706051	Meals Outside Home
519	2022	304	122.869	0.0455402	Dairy Products And Eggs
558	2022	364	131.669	0.0318169	Other Health Expenses

		7.53433					
542	2022		342	177.948	0.0120305	Electrical Equipment	
For Home			7.01189				
540	2022		336	154.438	0.0165106	Municipal Taxes	
	6.7207						
533	2022		322	119.826	0.0420634	Monthly Rent	
	6.23569						
515	2022		300	118.932	0.0427711	Bread Grains and	
Pastries			6.05474				
524	2022		309	121.667	0.0277758	Various Food Products	
	4.49992						
571	2022		391	153.433	0.0107638	Cigarettes Tobacco	
And Smoking Supplies			4.30053				

Top 10 contributors to price index for 5:

	Year	prodcode	price_index	weight	description
contribution					
515	2022	317	137.681	0.00513498	Dried Fruits
-0.684557					
543	2022	373	142.554	0.00600541	Culture Sports And
Entertainment Events		-0.904112			
510	2022	312	124.948	0.0163164	Fresh Vegetables
-1.44013					
511	2022	313	134.786	0.0130198	Fresh Fruits
-1.60231					
507	2022	308	108.945	0.053324	Meals Outside Home
-1.68754					
499	2022	300	115.536	0.0326011	Bread Grains and
Pastries		-1.79188			
505	2022	306	186.216	0.00638313	Soft Drinks
-1.947					
503	2022	304	124.259	0.0337396	Dairy Products And
Eggs		-2.89577			
521	2022	334	124.873	0.0371449	Household Help
-3.26867					
513	2022	315	455.735	0.00622345	Pickled And Preserved
Vegetables		-7.83251			
549	2022	383	41.9836	0.335614	Vehicle Expenses
68.8865					
523	2022	336	24.9893	0.0894082	Municipal Taxes
23.727					
540	2022	364	42.4875	0.0352125	Other Health Expenses
7.16477					

